Test Report
Workability

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At site
Material	Concrete
Sample No	1
Date	15-Nov-2018

Sl. No.	Determination	Trial 1	Trial 2
1	Bottom Diameter(cm)	20	20
2	Top Diameter(cm)	10	10
3	Height(cm)	30	30
4	Slump(mm)	28	26
5	Average	27	

Comments: Maximum allowable slump as per MORT&H is 25±15mm

Note:

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ii. The results relate only to the items tested.

iii. This test report should not be reproduced except in full, without written approval of this laboratory.

iv. Any query regarding the report must be reported immediately.

For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Workability

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At site
Material	Concrete
Sample No	2
Date	17-Nov-2018

Sl. No.	Determination	Trial 1	Trial 2
1	Bottom Diameter(cm)	20	20
2	Top Diameter(cm)	10	10
3	Height(cm)	30	30
4	Slump(mm)	26	27
5	Average	26.5	

Comments: Maximum allowable slump as per MORT&H is 25±15mm

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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MECADEZ CORE TECHNOLOGIES PRIVATE LIMITED
PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report
Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	1
Date	23-Nov-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	7	7.42	150*150*150	2198.52	501	0.0225	22.27	22.81	23.23
2	30	7	7.51	150*150*150	2225.19	513	0.0225	22.80		
3	30	7	7.52	150*150*150	2228.15	526	0.0225	23.38		
4	30	7	7.76	150*150*150	2299.26	537	0.0225	23.87	23.64	
5	30	7	7.51	150*150*150	2225.19	530	0.0225	23.56		
6	30	7	7.48	150*150*150	2216.30	529	0.0225	23.51		

Results: 7-days Compressive strength of cement is 23.23 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone,
Bangalore.

Test Report
Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	2
Date	23-Nov-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	7	7.52	150*150*150	2228.15	503	0.0225	22.36	22.90	23.32
2	30	7	7.61	150*150*150	2254.81	515	0.0225	22.89		
3	30	7	7.62	150*150*150	2257.78	528	0.0225	23.47	23.73	
4	30	7	7.86	150*150*150	2328.89	539	0.0225	23.96		
5	30	7	7.61	150*150*150	2254.81	532	0.0225	23.64		
6	30	7	7.58	150*150*150	2245.93	531	0.0225	23.60		

Results: 7-days Compressive strength of cement is 23.32 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report

Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	3
Date	24-Nov-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	7	7.61	150*150*150	2254.81	505	0.0225	22.44	22.99	23.41
2	30	7	7.70	150*150*150	2281.48	517	0.0225	22.98		
3	30	7	7.71	150*150*150	2284.44	530	0.0225	23.56		
4	30	7	7.95	150*150*150	2355.56	541	0.0225	24.04	23.82	
5	30	7	7.70	150*150*150	2281.48	534	0.0225	23.73		
6	30	7	7.67	150*150*150	2272.59	533	0.0225	23.69		

Results: 7-days Compressive strength of cement is 23.41 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report

Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	4
Date	24-Nov-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	7	7.71	150*150*150	2284.44	507	0.0225	22.53	23.08	23.50
2	30	7	7.80	150*150*150	2311.11	519	0.0225	23.07		
3	30	7	7.81	150*150*150	2314.07	532	0.0225	23.64		
4	30	7	8.05	150*150*150	2385.19	543	0.0225	24.13	23.91	
5	30	7	7.80	150*150*150	2311.11	536	0.0225	23.82		
6	30	7	7.77	150*150*150	2302.22	535	0.0225	23.78		

Results: 7-days Compressive strength of cement is 23.50 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	1
Date	14-Dec-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	28	8.63	150*150*150	2557.04	1162	0.0225	51.64	54.01	53.46
2	30	28	8.55	150*150*150	2533.33	1213	0.0225	53.91		
3	30	28	8.42	150*150*150	2494.81	1271	0.0225	56.49		
4	30	28	8.67	150*150*150	2568.89	1193	0.0225	53.02	52.90	
5	30	28	8.58	150*150*150	2542.22	1196	0.0225	53.16		
6	30	28	8.52	150*150*150	2524.44	1182	0.0225	52.53		

Results: 28-days Compressive strength of cement is 53.46 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	2
Date	14-Dec-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	28	8.73	150*150*150	2586.67	1164	0.0225	51.73	54.10	53.55
2	30	28	8.65	150*150*150	2562.96	1215	0.0225	54.00		
3	30	28	8.52	150*150*150	2524.44	1273	0.0225	56.58		
4	30	28	8.77	150*150*150	2598.52	1195	0.0225	53.11	52.99	
5	30	28	8.68	150*150*150	2571.85	1198	0.0225	53.24		
6	30	28	8.62	150*150*150	2554.07	1184	0.0225	52.62		

Results: 28-days Compressive strength of cement is 53.55 N/mm2

Note:

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Asst. Executive Engineer
Project Division
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PROJECT MANAGEMENT & CONSULTANCY SERVICES

Test Report

Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	3
Date	14-Dec-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	28	8.82	150*150*150	2613.33	1166	0.0225	51.82	54.19	53.64
2	30	28	8.74	150*150*150	2589.63	1217	0.0225	54.09		
3	30	28	8.61	150*150*150	2551.11	1275	0.0225	56.67		
4	30	28	8.86	150*150*150	2625.19	1197	0.0225	53.20	53.08	
5	30	28	8.77	150*150*150	2598.52	1200	0.0225	53.33		
6	30	28	8.71	150*150*150	2580.74	1186	0.0225	52.71		

Results: 28-days Compressive strength of cement is 53.64 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone.
Bangalore

Test Report

Concrete Compresive strength

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Pavement Quality Concrete(M30)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	concrete
Sample No	4
Date	14-Dec-2018

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Dimension (LxWxH)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength (N/mm^2)	Avg. Sample Strength	Avg. Strength
1	30	28	8.92	150*150*150	2642.96	1168	0.0225	51.91	54.28	53.73
2	30	28	8.84	150*150*150	2619.26	1219	0.0225	54.18		
3	30	28	8.71	150*150*150	2580.74	1277	0.0225	56.76		
4	30	28	8.96	150*150*150	2654.81	1199	0.0225	53.29	53.17	
5	30	28	8.87	150*150*150	2628.15	1202	0.0225	53.42		
6	30	28	8.81	150*150*150	2610.37	1188	0.0225	52.80		

Results: 28-days Compressive strength of cement is 53.73 N/mm2

Note:

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For Mecadez Core Technologies Private Limited

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Consistency test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	10-Nov-2018

Sl. No.	Description	Trial 1	Trial 2	Trial 3	Trial 4	Trial 4
1	Weight of Cement	400	400	400	400	400
2	Percentage of water added (%)	27	28.5	29.5	30	31
3	Weight of Water (gm)	108	114	118	120	124
4	Initial Reading of Plunger (mm)	40	40	40	40	40
5	Difference (mm)	19	16	11	6.5	5.5

Results: Standard Consistency of Cement: 31.00%

Note:

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Mecadez Core Technologies Pvt Ltd

Authorised Signature

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report
Fineness test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At site
Material	Cement
Sample No	1
Date	10-Nov-2018

Sl. No.	Determination	Trial 1	Trial 2
1	Weight of Cement before sieve (gm)	100	100
2	Weight of residue retained on 90um sieve (gm)	5.3	4.1
3	Percentage retained (%)	5.3	4.1
4	Average Percentage retained (%)	4.7	

Results: Residue of cement is: 4.7%

Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%

Note:

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ii. The results relate only to the items tested.

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iv. Any query regarding the report must be reported immediately.

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Asst. Executive Engineer
Project Division
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Test Report
Soundness test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	At Site
Material	Cement
Sample No	1
Date	10-Nov-2018

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	11	10	11
2	Final Distance between the indicator points of Lechatelier mould	18	16	17
3	Difference or expansion	7	6	6
4	Average Differences or Expansion in mm	6.33		

Results: Difference in Expansion of Cement: 6.33mm

Comments: Maximum allowable Expansion of cement is 10mm.

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Test Report

Compressive strength test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Cement
Sample No	1
Date	20-Nov-2018

Cube	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	7	-	0.825	70.6x70.6 x70.6	2344.4	187	4984.36	37.52	37.32
2	43	7	-	0.836	70.6x70.6 x70.6	2375.7	185	4984.36	37.12	

Results: 7-days Compressive strength of cement is 37.32N/mm^2

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm^2

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Yelahanka Zone
Bangalore

Test Report

Compressive strength test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At Site
Material	Cement
Sample No	1
Date	11-Dec-2018

Cube	Cement Grade	Age at Test (Days)	Slump (mm)	Weight (kg)	Dimension (LxWxH)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	28	-	0.812	70.6x70.6 x70.6	2287.0	237	4984.36	47.55	46.95
2	43	28	-	0.82	70.6x70.6 x70.6	2316	231	4984.36	46.34	

Results: 28-days Compressive strength of cement is 46.95N/mm^2

Comments: 28-days Compressive strength of cement should not be less than 43 N/mm^2

Note:

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Bangalore

Test Report
Gradation test

Project Name	1. Improvement of roads and drain at kogilu layout main road and cross road in ward no 05 byatarayanapura sub division2. Improvement of roads and drain at kattigenahalli kuvempunagara cross road in ward no 05 byatarayanapura sub division3. Improvement of drain at dwarakanagara srirama temple road in ward no 05 byatarayanapura sub division4. Improvement of roads and drain at kattigenahalli surrounding area in ward no 05 byatarayanapura sub division5. Improvement of roads and drain at nirantara layout in ward no 05 byatarayanapura sub division6. Improvement of drain and asphalting to road at agrahara layout harihara temple surrounding area in ward no 05 byatarayanapura sub division
Client	Executive Engineer Project Division Yelahanka Zone
Job No	MCTPL/BBMP/Project Division Yelahanka Zone /PMC/2018-19/P-8/03/QR
Mix Type	Plain cement concrete(1:3:6)
Contractor	Sri. A. CHENNAREDDY
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	At site
Material	Fine Aggregates
Sample No	1
Date	10-Nov-2018

Weight of Sample(gram): 200

Sl No.	IS Sieve Size	Weight retained	% retained	% Cumulative	Cumulative % of Passing		Remarks
					% Passing	Gradation limits	
1	10 mm	0	0.00	0.00	100.00	100	Gradation satisfies the MORT&H Zone ll Specification for PQC
2	4.75 mm	15	7.50	7.50	92.50	90-100	
3	2.36 mm	19	9.50	17.00	83.00	75-100	
4	1.18 mm	14	7.00	24.00	76.00	55-90	
5	600 µ	46	23.00	47.00	53.00	35-59	
6	300 µ	57	28.50	75.50	24.50	8-30	
7	150 µ	41	20.50	96.00	4.00	0-10	

Note:

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